

**METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND
TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC DISEASE USING
4941**

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Abstract of the Disclosure

10 The present invention relates to methods and compositions for the diagnosis and
treatment of cardiovascular disease, including, but not limited to, atherosclerosis,
reperfusion injury, hypertension, restenosis, arterial inflammation, and endothelial cell
disorders, such as disorders associated with aberrant endothelial cell growth, angiogenesis
and/or vascularization, *e.g.*, tumorigenic disorders. Specifically, the present invention
identifies GPCR 4941 genes which are differentially expressed in cardiovascular disease
states, relative to their expression in normal, or non-cardiovascular disease states, and/or in
response to manipulations relevant to cardiovascular disease. The present invention also
15 identifies GPCR 4941 genes as differentially expressed in tumorigenic disease, *e.g.*, ovarian
cancer. The present invention describes methods for the diagnostic evaluation and
prognosis of various cardiovascular and tumorigenic diseases, and for the identification of
subjects exhibiting a predisposition to such conditions. The present invention provides
methods for the diagnostic monitoring of patients undergoing clinical evaluation for the
20 treatment of cardiovascular disease and tumorigenic, and for monitoring the efficacy of
compounds in clinical trials. The present invention also provides methods for the
identification and therapeutic use of compounds as treatments of cardiovascular and
tumorigenic disease.

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